

HPLC测定黑草中木犀草素和芹菜素的含量

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中文摘要:目的:建立高效液相色谱测定黑草药材中木犀草素和芹菜素的含量的方法。 方法: 样品用甲醇回流提取90 min,用Agilent Extend-C₁₈(4.6 mm×250 mm,5 μm)色谱柱分离,以乙腈-0.7%冰醋酸(30 : 70)为流动相,流速1.0 mL · min⁻¹,检测波长350 nm;柱温35 °C,进样量10 μL,以外标法定量。 结果: 木犀草素在1.126~112.6 mg · L⁻¹呈良好的线性关系(*r*=0.999 7),平均回收率101.3%,RSD 1.2% (*n*=6);芹菜素在0.886~88.6 mg · L⁻¹ 呈良好的线性关系(*r*=0.999 5),平均回收率99.4%,RSD 2.2%(*n*=6)。 结论: 该法操作简便,结果准确可靠,重复性及稳定性良好,可作为控制黑草药材质量的方法。

中文关键词:黑草 木犀草素 芹菜素 高效液相色谱 含量测定

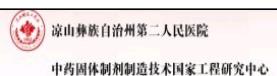
Determination of the Content of Luteolin and Diosmetin in *Buchnera cruciata* by HPLC

Abstract:Objective: To develop a HPLC method for determination of the content of luteolin and diosmetin in *Buchnera cruciata*. Method: Samples were extracted for 90 minutes with methanol,a Agilent Extend-C₁₈ column(4.6 mm×250 mm,5 μm) was used for composition separation and the mobile phase consisted of acetonitrile-0.7%acetic acid (30 : 70) with a flow rate of 1.0mL · min⁻¹.The detection wavelength was at 350 nm, column temperature was at 35 °C . Sample volume is 10 μL, The content of luteolin and diosmetin in *B. cruciata* was determined by external standard method. Result: The linear of luteolin and diosmetin concentrations were within 1.126-112.6 mg · L⁻¹(*r*=0.999 7),0.886-88.6μg · ml⁻¹ (*r*=0.999 5), the average recoveries of luteolin and diosmetin were 101.3%(RSD 1.2%,*n*=6), 99.4%(RSD 2.2%, *n*=6). Conclusion: The method is simple, accurate and reproducible with good stability, can be used as quality control methods for *B. cruciata* medicinal materials.

keywords:*Buchnera cruciata* luteolin diosmetin HPLC determination

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